## DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT OFFICE ADDRESS AND PHONE NUMBER DATE(S) OF INSPECTION 9/25/13-10/9/13 8050 Marshall Drive, Suite 205 Lenexa, KS 66214 FEI NUMBER (913) 495-5115 1937280 Industry Information: www.fda.gov/oc/industry NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED TO: Kevin M. Jenkins, Vice President Pharmaceutical Operations-Quality FIRM NAME STREET ADDRESS Meridian Medical Technologies A Pfizer Company 1945 Craig Road TYPE OF ESTABLISHMENT INSPECTED CITY, STATE AND ZIP CODE Saint Louis, MO 63146-4105 Sterile Drug Manufacturer THIS DOCUMENT LISTS OBSERVATIONS MADE BY THE FDA REPRESENTATIVE(S) DURING THE INSPECTION OF YOUR FACILITY. THEY ARE INSPECTIONAL OBSERVATIONS: AND DO NOT REPRESENT A FINAL AGENCY DETERMINATION REGARDING YOUR COMPLIANCE. IF YOU HAVE AN OBJECTION REGARDING AN OBSERVATION, OR HAVE IMPLEMENTED, OR PLAN TO IMPLEMENT CORRECTIVE ACTION IN RESPONSE TO AN OBSERVATION, YOU MAY DISCUSS THE OBJECTION OR ACTION WITH THE FDA REPRESENTATIVE(S) DURING THE INSPECTION OR SUBMIT THIS INFORMATION TO FDA AT THE ADDRESS ABOVE. IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT FDA AT THE PHONE NUMBER AND ADDRESS ABOVE. DURING AN INSPECTION OF YOUR FIRM (I) (WE) OBSERVED: Observations cover inspections of the firm from 25Sept2013 – 09Oct2013 at the following addresses: Meridian Medical Technologies, Inc. Meridian Medical Technologies, Inc. 1444 Strassner Rd. 1945 Craig Rd St. Louis, MO 63144 Saint Louis, MO 63146-4105 FEI - 3010091964 FEI- 1937280 cGMP Deviations: 1. Failure to validate a process for remediation of ATNAA (Atropine 2.1mg/0.7mL and Pralidoxime Chloride 600 mg/2 mL Injection) auto-injectors. Specifically, a. Process Validation 13-134, using Lot 2M1501, was executed without an approved process validation protocol. Lot 2M1501 was remediated from 4-7Jun2013 as an "at risk process" prior to approval of Process Validation 13-133, using Lot 2M1431, which was determined a failure and rejected on 21Jun2013. The Process Validation Protocol for 13-134 was signed and approved on 6Jun2013. The protocol for Process Validation using Lot 2M1501 was initiated prior to verification of standard operating procedures (7Jun2013), process (critical) instrumentation calibration (7Jun2013), process parameters (7Jun2013), and training (10Jun2013). Process Validation 13-134 utilized the same protocol as the failed Process Validation 13-133 and proceeded with no investigation to determine the root cause of the failure (accountability and documentation) and no changes or corrective actions were implemented. Subsequently, eight out of (b) (a) lots remediated in St.Louis have investigation reports for accountability issues. b. You failed to revalidate your process when you made changes to your remediation program after 23Jul2013 including: changing your check weighing scales (from 6) (4) to ; changing your flow EMPLOYEE(S) NAME AND TITLE (Print or Type) Lichele Perry-Williams, Investigator Kath Heen B Swat, Investigator Shery G. Brus, Superviery Investigator Dawn C. Olenjack, Investigator EMPLOYEE(S) SIGNATURE The cheek there williams DATE ISSUED REVERSE 10/9/2013

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TO: Kevin M. Jenkins, Vice President Pharmaceutical Operation	ns-Quality		
FIRM NAME	STREET ADDRESS		\$18 <sup>8</sup> \$
Meridian Medical Technologies A Pfizer Company	1945 Craig Road		
CITY, STATE AND ZIP CODE	TYPE OF ESTABLISHMENT INS	PECTED	<u> </u>
Saint Louis, MO 63146-4105	Sterile Drug Manufacture	r	
of units in the counting bins (from to local) to improve reconciliation. These changes were implemented as corrective actions to correct systemic accountability issues originating from failed process validation lot # 2M1431.  ISSUES WITH PROCESS VALIDATION IS A REPEAT OBSERVATION FROM THE 20Mar-29Apr2013 EI.			
2. Insufficient qualification in the remediation of ATNAA (Atropine 2.1mg/0.7mL and Pralidoxime Chloride 600 mg/2 mL Injection) autoinjectors. Without successful IQ, OQ, and PQ, you still proceeded to Process Validation.			
Specifically, a. Qualification Protocol, QP 13-610, Addendum to the Installation and Operation Qualification (IQ/OQ) of the  (b) (4) ler with (5) (4) scale set-up) was performed on 19May2013 and signed and approved on 20May2013. Scale (5) (4) was not tested due to being tagged "out of service" and the qualification was conducted on the other scales. Scale (5) (4) was sent for repair on 19May2013, returned and approved for use on 20May2013.  (b) (4) Scale (5) (4) was sent for all remediation weight checks for all lots, was not assessed for Installation Qualification or Operation Qualification activities.			
b. Performance Qualification Protocol QP-13-121, approved 14Apr2013, and completed and final summary approval on 29Apr2013, had an unexplained accountability discrepancy of one ATNAA (Atropine 2.1mg/0.7mL and Pralidoxime Chloride 600 mg/2 mL Injection) unit. The PQ used lot 2M1644, a lot that was QA approved for release, but never distributed. The accountability could not be reconciled, no investigation was initiated, and the PQ was approved to proceed to process validation.			
ISSUES WITH IQ/OQ/PQ ARE REPEAT OBSERVATIONS FROM THE 20Mar-29Apr2013 EI.			
3. The quality control unit lacks authority to review production records to assure that no errors have occurred and fully investigate errors that have occurred.			
Specifically,			
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DEPARTMENT OF HE	ALTH AND HUMAN SERVICES		
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Lenexa, KS 66214		EJ NUMBER	
(913) 495-5115		1937280	
Industry Information: www.fda.gov/oc/industry  NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED			
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TO: Kevin M. Jenkins, Vice President Pharmaceutical Operation	STREET ADDRESS		100-100 a 110 a
Meridian Medical Technologies A Pfizer Company	1945 Craig Road		
CITY, STATE AND ZIP CODE	TYPE OF ESTABLISHMENT INS	SPECTED	
Saint Louis, MO 63146-4105	Sterile Drug Manufactur		
You failed to implement adequate corrective and prevent	entire actions of very an	aduat aantinuaa ta	hava
accountability issues after you implemented the follow	어른 사람들이 아니는 아이들이 얼마를 가지 않는 아니라 아이들이 아니는 아니는 아니는 아니라 아니는		
scales (b) (4) asset numbers (b) (4) and (0) (4); change			
counting scale and counting bin step); and (b) (4) the			
improve reconciliation. This is evidenced through you			
2.1mg/0.7mL and Pralidoxime Chloride 600 mg/2 mL			
processed after 23Jul2013 when the previously mention			oo viiion viere
F		Marine Seveniera (180	
THIS IS A REPEAT OBSERVATION FROM THE 2	4Jan-4Apr 2013 EI AND	) THE 20Mar-29A	pr2013 EI,
4. Written production and process control procedures control functions.	are not followed in the e	xecution of produc	ction and process
Specifically,			
a. You failed to follow your SOP, "Proper Documenta	tion", OLA-MOA-00603	3. dated 29May201	13. when you did
not record reconciliation discrepancy information on E	\$1 (175) The state of the state	22	(B)
(Atropine 2.1mg/0.7mL and Pralidoxime Chloride 600 mg/2 mL Injection) batches:			
1. Lot 2M1431: the operator failed to record the count on the batch record when there was a discrepancy			
between the physical count and the count received from the counting scale.			
2. Lot 2M1029: you failed to document a reconciliation discrepancy in the Batch Record.			
3. Lot 2M1019: you failed to document a reconcil	iation discrepancy in the	Batch Record.	
b. In addition, you failed to follow your SOP, "Proper Documentation", QLA-MQA-00603, dated 29May2013			
when you did not record information contemporaneously for the following lots of ATNAA (Atropine			
2.1mg/0.7mL and Pralidoxime Chloride 600 mg/2 mL Injection) batches:			
zymig crymin martiniae cincinae coo mg z mh mjeoneny catenes.			
1. Lot 2M1020: the Supervisor failed to include the entry for the quantity of unpouched units located on pallet			
at the time the task occurred, and later included the	사용에 얼마나 사용하면 사용하다. 그리고 있다면 하는 사람들이 아니라 하는데 하는데 그리고 있다면 하다 하는데 없다.		and the state of t
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8050 Marshall Drive, Suite 205		9/25/13-10/9/13	8
Lenexa, KS 66214		FEI NUMBER	
(913) 495-5115		1937280	
Industry Information: www.fda.gov/oc/industry NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED		1937200	
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TO: Kevin M. Jenkins, Vice President Pharmaceutical Operation	STREET ADDRESS		NOTE OF STREET
Meridian Medical Technologies A Pfizer Company	1945 Craig Road	Control of the Contro	
CITY, STATE AND ZIP CODE	TYPE OF ESTABLISHMENT INSPECTED		(
Saint Louis, MO 63146-4105	Sterile Drug Manufac		12
signatures for no. 2b. and the Verified By/Date signature for Defect Tally Table –Unpackaging; pg. 11, missing the Performed and Verified By signatures for the incoming pan count on half pallet 1B; pg 13, no. 8, is missing "Verified By" initials and "Verified By/Date:" signature for the "Defect Tally Table"; pg. 20, is missing the "Verified By" initials for step no. 16; pg. 45, is missing the "Verified By" initials for step no. 4; and pg. 47, is missing the "Performed By" initials for no. 13; is missing the "Verified By" initials for numbers 12 and 13; missing the "Defect Tally" "Verified By/Date" initials.  c. You failed to use your change control management system before implementing changes when you replaced of your Counting Scales (from (b) (4) to (b) (4) of during the ATNAA (Atropine 2.1mg/0.7mL and Pralidoxime Chloride 600 mg/2 mL Injection) remediation process, which were identified as critical pieces of equipment in your Process Validations 13-133 and 13-134.  THIS IS A REPEAT OBSERVATION FROM THE 24Jan-4Mar2013 EI.			
5. Written production and process control procedures are not followed in the execution of production and process control functions.			
Inventory Control System (b) (4) is not reliable or accurate:			
Specifically, Your Inventory Control System (6) (4) is not reliable of your drug products, for example:	e or accurate in that it d	oes not always refle	ct the true status
- ATNAA lot (1M1843) was physically/labeled as qu - ATNAA lot (2M1018) was physically/labeled on ho	old but in [9][6] was in	quarantine status	
THIS IS A REPEAT OBSERVATION FROM THE		10.00	ARE ALSO
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8050 Marshall Drive, Suite 205		9/25/13-10/9/13	
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(913) 495-5115		1937280	
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To: Kevin M. Jenkins, Vice President Pharmaceutical Operation	STREET ADDRESS		
Meridian Medical Technologies A Pfizer Company	1945 Craig Road		
CITY, STATE AND ZIP CODE	TYPE OF ESTABLISHMENT IN	SPECTED	
Saint Louis, MO 63146-4105	Sterile Drug Manufactu		
<u> </u>			
DOCUMENTED IN THE 483 FOR THE 20Mar-29A	.pr2013 EI.		
The Following Additional Contract Non-Conformanc	es Were Observed:		
1. You failed to follow the ISO 2859-1/ANSI/ASQ Z	1.4 Standard.		
Specifically,			
In your contract modification dated/signed 19Sept20	13, it reads "	(b) (4)	l
(b) (4)	b) (4) ) (4) ." In your MPID	contract dated 14J	an2013 section
3.2.2 it reads, " (b) (4)		Paradrania de la constitución de	ou do not follow
ISO 2859-1/ANSI/ASQ Z1.4 because you do not use	it in the way it is intende	d which would req	uire
implementing the switching rules. ISO 2859-1, Section specific individual plans are selected from this part of		U.S.	3.73
그는 사람이 가입하는데, 장소님들이 가장 하나 있는데 사람이 있는데 아름이 살아 있다면 하다가 되었다면서 그렇지 않아 얼마나 되었다면서 그렇지 않는다면서 되었다면서 하는데 나를 하는데 되었다.		- 1901 WHO BOD - BOD HOLD HOLD WAS REED TO BE	
example, a purchaser may be using the plans for verification purposes only. This is not the intended application of the system given in this part of ISO 2859 and its use in this way shall not be referred to as "inspection in compliance with ISO 2859-1".			
When switching rules are implemented, ISO 2859-1,	하다 하는 사람들이 되어 가지 않는데 하면 하는 사람들이 그는 그렇게 되어 하게 하지만 하나 되었다며 그렇다는	지하는 사람들이 그렇게 하나 하나 아이를 하나 하나 없다면 살아가요?	
normal inspection is being carried out, tightened inspection shall be implemented as soon as two out of five (or			
fewer than five) consecutive lots have been non-acceptable on original inspection". Section 9.4 continues, "If the			
cumulative number of lots not accepted in a sequence of consecutive lots on original tightened inspection reaches			
5, the acceptance procedure of this part of ISO 2859 shall not be resumed until action has been taken by the			
supplier to improve the quality of the submitted produ	ict or service".		
In addition, lots were remediated in St. Louis and l	Kalamazoo and camplin	a was placed on ho	ld after you
found ATNAA (Atropine 2.1mg/0.7mL and Pralidoxime Chloride 600 mg/2 mL Injection) units with low fills			
during your sample of (b) (4) as required by your modified			
contract. The contract reads, "	(b) (4)		Mil Mil
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Lenexa, KS 66214 (913) 495-5115	FEI NUMBER	
Industry Information: www.fda.gov/oc/industry	1937280	
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED	3000,0000	A W A W
TO: Kevin M. Jenkins, Vice President Pharmaceutical C	perations-Quality	
FIRM NAME	STREET ADDRESS	
Meridian Medical Technologies A Pfizer Company	1945 Craig Road	
CITY, STATE AND ZIP CODE Spirit Louis MO 63146-4105	TYPE OF ESTABLISHMENT INSPECTED	
Saint Louis, MO 63146-4105	Sterile Drug Manufacturer	
	(b) (4)	h
3.		
		1.
	35	
Specifically, Your AQL samples were not collected at random ATNAA (Atropine 2.1mg/0.7mL and Pralidoxin section 2c reads in part, "	보게 아이들이 없는 사람이 나는 것을 하는 하는 것들은 것이 하는 아들이 아이를 맞았다면 하는 것이 하는 사람이 하는 사람이 아이를 가지 않는 것이다.	rando en randificial de la fasta en la filipa de la regiona de la companya de la regiona de la companya de la c
selected for the sample shall be drawn from the		section 8.1: "The items
In addition, your SOP, SOP-QLC-SQC-00360 "effective 14Jul2013) reads "Randomly sample ATNAA auto-injectors from the remediated (ac interest. Use Form FRM-LAB-161 to record resords."	(minimum of beginning, middle, end) deter ceptable) units generated from the remedia	rmined amount of
According to your Senior Supervisor of Quality Sheets, samples are either pulled during the rem received by quality, at which time the sampler will be pulled from the top box of a pallet, some - Samples for ATNAA lot 2M1524 were pulled - Samples for ATNAA lot 2M1501 were pulled - Samples for ATNAA lot 1M1843 were pulled times:  [5] (4), [5] (4), [6] (4) and ending the remarks and the samples for ATNAA lot 1M1843 were pulled times:  [6] (4), [7] (5), (4), (5), (4), (6), (4), (6), (4), (6), (4), (6), (4), (6), (4), (6), (4), (6), (4), (6), (4), (6), (4), (6), (4), (6), (6), (4), (6), (6), (4), (6), (6), (6), (6), (6), (6), (6), (6	ediation process whenever the Sample Subvill pull ( (b) (4) s from the end of tetimes from multiple pallets. For example: from the top box of (b) (4) different p from the top box (b) (4) different p during the remediation process on (b) (4), and (b) (a) units at (b) (4). The remediation	bmission Form is the line, or the sample coallets ballets at the following
SEE SEE PAGE  EMPLOYEE(S) SIGNATURE  Thicker (any tikulary)  PAGE  EMPLOYEE(S) SIGNATURE  Thicker (any tikulary)  PAGE	EMPLOYEE(S) NAME AND TITLE (Print or Type) Historie Perry - Williams, Investigate KATHICK B. WAT, UNITARIAM Sherry G. Brus, Supervising Investigation Dawn C. Olemack, Investigator Elming E. Man, Investigator	DATE ISSUED  10/9/2013